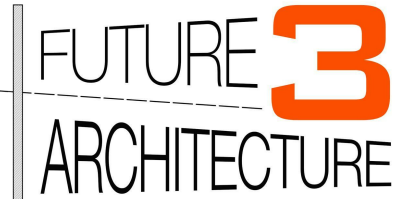


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DRAWING
Proposed Section AA

STATUS BR

SCALE (@ A3) 1 : 50

DRAWN BY C.F

DATE 22.04.21

DRAWING NUMBER 21028 - 07
REV A

PITCHED ROOF
To achieve min U-value required of 0.18 W/m²K Roofing tiles to match existing fixed to tile battens secured over breathable sarking felt allowing the breather felt to sag at least 10mm over preservative-treated counter battens (min 38mm x 50mm). Provide 300mm Rockwool quilt insulation between and over 47 x 175mm timber rafters at 400 c/c (engineer to confirm) Plasterboard fixed under rafters with skim finish. Restraint strapping - 100mm x 50mm wall plate strapped down to walls. Ceiling joists and rafters to be strapped to walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other approved every 1 at 2m centres. Maintain a 50mm air gap above insulation in the roof pitch to ventilate roof. Provide opening at eaves level at least equal to continuous strip 25mm wide and opening at ridge equal to continuous strip 5mm wide to promote ventilation.

Rafters birdmouthed over 100 x 50mm wall plate, wall plate fixed to blockwork with 1000 x 30 x 5mm galvanised straps at 1 every 2m Cntrs

Cross ventilation to be provided by a proprietary eaves ventilation strip equivalent to a 25mm continuous gap at eaves level with insect grill and 50mm air gap between felt and insulation

PARTIAL FILL CAVITY WALL
To achieve minimum U Value of 0.28W/m²K 102.5mm brickwork, 50mm clear residual cavity, 50mm Kingspan Thermawall TW50 fixed to inner leaf of 100mm lightweight block, Internal finish 12.5mm plasterboard on dabs. Facing bricks at base to line with main house

DPC minimum 150mm above external ground level

Cavities below ground level to be filled with lean mix concrete min 225mm below damp proof course.

Foundations to engineers specification

FLASHING
Code 4 lead flashing fitted into mortar joint 25mm deep, lead flashing min 150mm above roofing tiles.

Rafters bird-mouthed onto plate, notch no greater than third of rafter depth, with a min of 2 nail fixings per rafter.

NEW AND REPLACEMENT WINDOWS & DOORS
to be double glazed and to achieve U-value of 1.6 W/m²K.

DPM lapped into existing floor

SOLID FLOOR INSULATION OVER SLAB
To meet min U value required of 0.22 W/m²K Solid ground floor to consist of 150mm consolidated well-rammed hardcore. Blinded with 50mm sand blinding. Provide 100mm ground bearing slab concrete mix to conform to BS 8500-2 over a 1200 gauge polythene DPM. DPM to be lapped in with DPC in walls. Floor to be insulated over slab and DPM with min 100mm Kingspan Kooltherm K3. Finish with 65mm sand/cement screed 25mm perimeter upstand insulation acting as expansion joint for concrete slab and screed.

SECTION AA

